NOTES:

- 1. USE CURRENT EDITION OF THE AASHTO A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS FOR DESIGN OF ROADWAY ELEMENTS.
- 2. USE CURRENT EDITION OF THE AASHTO ROADSIDE DESIGN GUIDE FOR CLEAR ZONE REQUIREMENTS.
- 3. FOR DECELERATION LENGTH:

USE A RUNNING SPEED OF 10 MPH BELOW POSTED SPEED LIMIT FOR ENTRANCE SPEED.

ADJUST FOR SPEED CHANGES ON GRADES AS NECESSARY.

4. FOR ACCELERATION LENGTH:

USE A RUNNING SPEED OF 10 MPH BELOW POSTED SPEED LIMIT FOR MERGING SPEED.

ADJUST FOR SPEED CHANGES ON GRADES AS NECESSARY.

- USE A 16 FEET MINIMUM ACCEPTANCE LANE FOR 50 FEET WITH A 15:1 TAPER IF ACCELERATION LANE IS NOT USED.
- USE 4 FEET MINIMUM SHOULDER FOR RIGHT TURN DECELERATION LANE TAPER, RIGHT TURN STORAGE LANE, RIGHT TURN ACCELERATION LANE, AND RIGHT TURN ACCELERATION LANE TAPER. MATCH EXISTING WIDTH OF SHOULDER, WITH A 4 FEET MINIMUM, AT ALL OTHER SHOULDER LOCATIONS.
- 7. STANDARDS SHOWN ARE RECOMMENDED VALUES. EXCEED STANDARDS IF CONDITIONS PERMIT.
- 8. PROVIDE LEFT TURN POCKET ON OPPOSITE APPROACH FOR A FOUR LEG INTERSECTION.
- PROVIDE LEFT TURN LANE, RIGHT TURN DECELERATION LANE, RIGHT TURN ACCELERATION LANE, AND/OR LEFT TURN ACCELERATION LANE WHEN VOLUMES EXCEED THOSE LISTED IN TABLE I. INCREASE THE VOLUMES TO PROVIDE PASSENGER CAR EQUIVALENTS FOR TRUCKS.
- 10. G = 90' FOR SPEEDS 40 MPH AND BELOW G = 140' FOR SPEEDS 45 TO 50 MPH G = 180' FOR SPEEDS 55 MPH AND ABOVE
- 11. 12' LANE WIDTH DESIRABLE 10' MINIMUM LOW VOLUME LOW SPEED.
- 12. SEE STD DWG ST 5 FOR INFORMATION ON SIGNING AND STRIPING DETAILS.

| TABLE I | | | | | | |
|----------------------------------------------------------------------------------------|----------------------|-----------------------|------------------------------------|-----------------------------------|--|--|
| MINIMUM LEVELS FOR INSTALLATION OF TURN AND ACCELERATION LANES ON RURAL TWO LANE ROADS | | | | | | |
| SPEED | LEFT TURN LANE | RIGHT TURN LANE | RIGHT TURN ACCELERATION LANE | LEFT TURN ACCELERATION LANE | | |
| 40 MPH AND LESS | 25 VPH | 50 VPH | OPTIONAL | OPTIONAL | | |
| 45 TO 55 MPH | 10 VPH | 25 VPH | 50 VPH | ** | | |
| 60 MPH AND GREATER | REQ'D* | 10 VPH | 25 VPH | *** | | |

FARM ACCESSES EXCLUDED.

OPTIONAL FOR 50 MPH AND LESS. FOR 55 MPH, AS REQUIRED BY THE REGION TRAFFIC ENGINEER.

AS REQUIRED BY THE REGION TRAFFIC ENGINEER.
VEHICLES PER HOUR IN ANY ONE HOUR PERIOD IN PASSENGER CAR EQUIVALENTS.

| TABLE II | | | | | | | |
|----------------------------------|------------------------------|--|--|--|--|--|--|
| SPEED | FORMULA | | | | | | |
| FOR SPEEDS OF 40 MPH AND LESS | $L = \frac{\text{WS}^2}{60}$ | | | | | | |
| FOR SPEEDS OF 45 MPH AND GREATER | L= WS | | | | | | |

L = TAPER LENGTH IN FEET

W = WIDTH OF OFFSET IN FEET

S = SPEED IN MPH

| "D" | "D" DISTANCE | | | | |
|--------------|--------------|-----------------|--|--|--|
| SPEED MPH | "D" FEET | 3/4 "D" FEET | | | |
| 25 | 250 | 190 | | | |
| 30 | 325 | 245 | | | |
| 35 | 400 | 300 | | | |
| 40 | 475 | 360 | | | |
| 45 | 550 | 415 | | | |
| 50 | 625 | 470 | | | |
| 55 | 700 | 525 | | | |
| 60 | 775 | 585 | | | |
| 65 | 850 | 640 | | | |

| ORTATION | CONSTRUCTION | | | JAN.01,2005 | DATE | JAN.01.2005 | |
|-----------------------------------|----------------------------------------------------|-----------------------|------------------------------|------------------|----------------------------|--------------------------|------------------------------|
| UTAH DEPARTMENT OF TRANSPORTATION | STANDARD BRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION | TAKING KINDALAH | | | | 1/2 | |
| TME | 3S FOF | SAL | ر ال | 1 | ITTE | \ | |
| EDA | RAWING | \ | | 3 | W COD S | ソンと) | |
| ĭ | ARD | \ | YOY . | | Odi dint | 1 | |
| UTA | STAND | | HINE RECOMMENDED FOR APPROVE | ' | CHAIRMAN STAND FOS CONMITT | | |
| | ITFICAL RURAL Z LANE | ROAD WITH MEDIAN DANE | HAND DECELERATION LANE | CNITCHSSHING COL | | SUHUNCCUNU SUHUNCCUNU | TITE CHILL OF THE CONTRACTOR |

STD DWG

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